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January 17, 1996

Mr. Daron Haddock **Permit Supervisor** Utah Division of Oil, Gas, and Mining 355 West North Temple

3 Triad Center Suite 350

Salt Lake City, Utah 84180

RE:

Crandall Canyon Mine ACT/032/015 Major Permit Modification - Installation of Culvert in Copy # 2, Daron = PAM

Crandall Creek to Expand Surface Facilities.

Dear Daron:

Genwal Resources, Inc is pleased to submit this major permit modification to allow for the installation of a 6' diameter culvert in Crandall Creek. Previously, in October, 1995 Genwal submitted the proposed text changes (changes to the text were presented in Bold type). Genwal is submitting the proposed remaining Appendix, Plate and Figure changes which include the detailed Bond Costs, the detailed engineering designs (and cross-sections) and the channel profiles. A brief project description and the proposed changes are presented below.

Culvert

Genwal is proposing that approximately 1200 feet of 6' diameter culvert be installed in Crandall Creek to allow for the creation of a larger mine surface area. It is anticipated that the overall disturbed area associated with the Crandall Canyon Mine will increase from approximately 5.55 acres to nearly 10.2 acres. All of the proposed expansion is occurring on Fee property which Genwal owns. An inlet with concrete wingwalls and headwall will be constructed for the culvert and the outlet will be constructed of Gabions with an energy dissipater.

Soils

The topsoil and substitute topsoil will be salvaged to an average depth of 1' from the proposed disturbed area. The salvaged soil materials would be stockpiled on the upper pad above the mine warehouse. However, Genwal, in coordination with the Division of Water Rights and Division of Wildlife Resources, proposes leaving the stream channel and its side slopes (to the first terrace approximately 8 feet above the stream bottom) intact to preserve the stream morphology. In this area the insitu colluvial soils and alluvial stream deposits would be left insitu and covered with a geotextile fabric immediately after the vegetation is removed. It is proposed that major boulders, cobbles, etc. be left intact. If a significant boulder needs to be moved then it will be salvaged for reinstallation during reclamation.

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Stream Diversion

During construction Crandall Creek will be intercepted in a small in stream dam and pumped and/or allowed to gravity flow in a temporary pipe around the construction area and then discharged back

into the stream channel. The final stream diversion measure will be determined when construction begins and the exact flow characteristics are determined. DOGM and Water Rights will be involved in the final stream diversion decisions. Sediment control will be provided by use of straw bale dikes, silt fencing, berms, etc. along the downgradient perimeter of all disturbed areas during construction. These sediment control measures will ensure that the sediment load does not increase in Crandall Creek.

Backfill

A sand backfill would be placed immediately over the geotextile backfill to create the exact grade and to act as bedding for the 6' culvert. The culvert will be installed and engineered backfill will be emplaced. It is anticipated that approximately 73,000 cubic yards of engineered backfill will be utilized to construct the proposed expansion area. Three samples of the proposed engineering backfill will be tested for the presence of acid-/toxic-forming materials prior to being hauled to the site.

Drainage/Sediment Pond

New diversion ditches will be constructed along the southern portion of the proposed pad. The existing culverts and drainage ditches will remain with a few modifications to fit with the proposed changes. The existing sediment pond will be expanded to contain the runoff from the existing and proposed areas. The two UPDES discharge points will remain, although the exact discharge point for the 4-inch line may change by a few feet.

Air Quality

Genwal has applied for an updated Air Quality permit and has received a letter with notification of "Intent to Approve" from the Division of Air Quality. It is anticipated that the final approval will be received by Mid-February, 1996.

Reclamation

After mining has ceased Genwal proposes to return the Crandall Canyon Mine disturbed area to its approximate original contour and the area reseeded. The Forest Service access road and trailhead will remain after the area has been reclaimed.

Sediment treatment during Phase 1 reclamation will be provided by a combination of strawbale dikes, silt fencing, or other appropriate methods in combination with the existing sediment pond. The sediment pond will be removed during Phase II reclamation and that area will be protected from erosion by strawbale dikes and silt-fencing.

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Genwal is desirous of working closely with DOGM to ensure that the technical requirements of the Mining and Reclamation Plan are adequately addressed. I would respectfully request that in early February, 1996 that members of the Genwal staff be allowed to meet with the designated DOGM Permit team members to discuss the permit amendment and any question they may have.

Again, thank you for your efforts.

Sincerely,

Randolph B. Gainer, PG Environmental Manager

attachments